

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P888182

Luminaire Tested: **DPT5-6FO44-109S30-A-XX-UDD**

Issue Date: 10/24/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P888182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DEFINE LENGTH SCALING TOOL)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: DPT5-6FO44-109S30-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

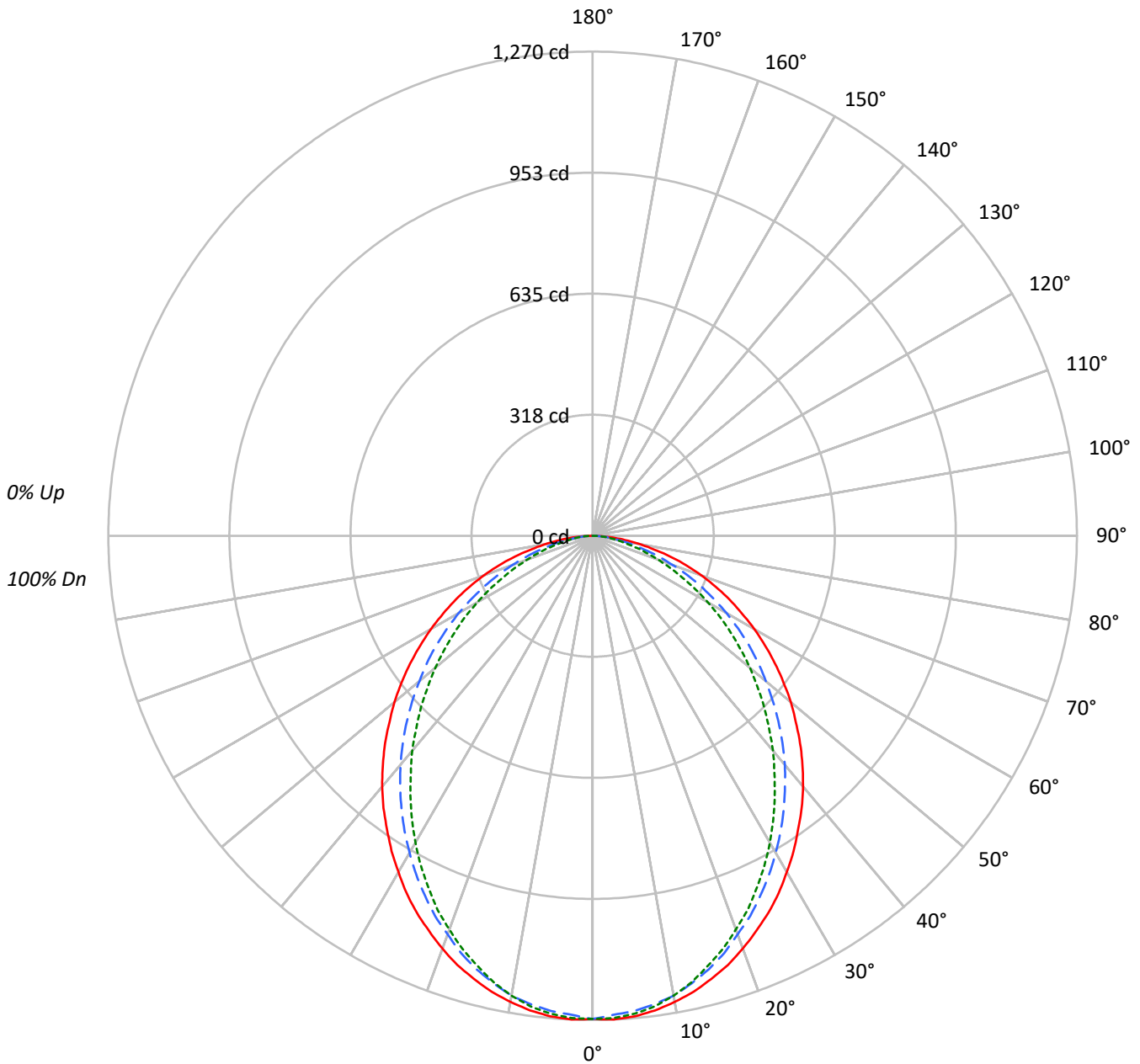
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2994.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61																			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36																			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9797	9797	9797
5°	9819	9708	9766
10°	9745	9616	9616
15°	9630	9421	9346
20°	9480	9149	9040
25°	9306	8882	8687
30°	9091	8570	8297
35°	8870	8247	7859
40°	8665	7911	7429
45°	8413	7533	6959
50°	8162	7126	6471
55°	7870	6736	5949
60°	7576	6259	5385
65°	7233	5709	4741
70°	6838	5016	4089
75°	6291	4233	3405
80°	5543	3326	2863
85°	4666	2723	2555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	4.0
10°-20°	333.3	11.1
20°-30°	483.3	16.1
30°-40°	550.6	18.4
40°-50°	536.7	17.9
50°-60°	451.6	15.1
60°-70°	316.5	10.6
70°-80°	162.3	5.4
80°-90°	40.5	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	935.8	31.3
0°-40°	1486.5	49.6
0°-60°	2474.8	82.7
0°-90°	2994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1265	1262	1251	1260	1258	120
15°	1203	1197	1177	1176	1168	339
25°	1091	1077	1041	1029	1018	502
35°	940	917	874	846	833	589
45°	770	742	689	651	636	593
55°	584	553	500	457	441	522
65°	395	363	312	274	259	391
75°	211	182	142	121	114	223
85°	53	35	31	30	29	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.3	1267.3	1267.3	1267.3	1267.3
2.5°	1270.1	1267.3	1257.7	1267.3	1266.2
5°	1265.3	1261.6	1251.0	1260.4	1258.4
7.5°	1255.8	1251.9	1239.4	1247.1	1245.3
10°	1241.4	1238.5	1225.0	1228.1	1225.0
12.5°	1225.0	1221.1	1202.0	1203.9	1199.3
15°	1203.2	1197.3	1177.1	1176.2	1167.7
17.5°	1180.1	1171.6	1147.5	1142.8	1136.1
20°	1152.3	1142.8	1112.1	1107.3	1098.8
22.5°	1121.7	1112.1	1079.8	1069.2	1062.2
25°	1091.0	1076.6	1041.3	1028.9	1018.4
27.5°	1056.7	1039.3	1002.1	985.9	975.4
30°	1018.4	1000.3	960.0	938.1	929.4
32.5°	980.9	959.1	917.9	893.0	881.7
35°	939.9	917.0	873.9	846.2	832.7
37.5°	900.7	872.8	828.8	796.5	782.8
40°	858.6	829.8	783.9	747.5	736.1
42.5°	814.4	784.7	736.8	702.5	684.2
45°	769.5	742.0	689.0	650.9	636.5
47.5°	722.4	694.0	641.1	602.0	585.7
50°	678.6	647.0	592.5	552.3	538.0
52.5°	630.6	598.3	547.4	503.3	489.0
55°	583.9	553.2	499.8	456.6	441.4
57.5°	536.0	503.3	451.8	409.6	396.3
60°	490.0	456.6	404.8	362.7	348.3
62.5°	441.4	409.6	357.0	318.7	304.3
65°	395.4	362.7	312.1	273.6	259.2
67.5°	349.2	316.9	267.9	231.7	220.3
70°	302.5	269.9	221.9	192.3	180.9
72.5°	256.5	224.9	180.9	154.1	147.5
75°	210.6	181.8	141.7	120.7	114.0
77.5°	163.5	140.6	107.1	91.1	85.2
80°	124.5	101.6	74.7	66.0	64.3
82.5°	86.1	66.0	49.9	46.7	46.0
85°	52.6	35.3	30.7	29.6	28.8
87.5°	22.2	15.3	14.4	14.4	13.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)